

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527373

Luminaire Tested: **GALN-SA2B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4910 lumens
Efficiency: N/A
Efficacy: 59.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

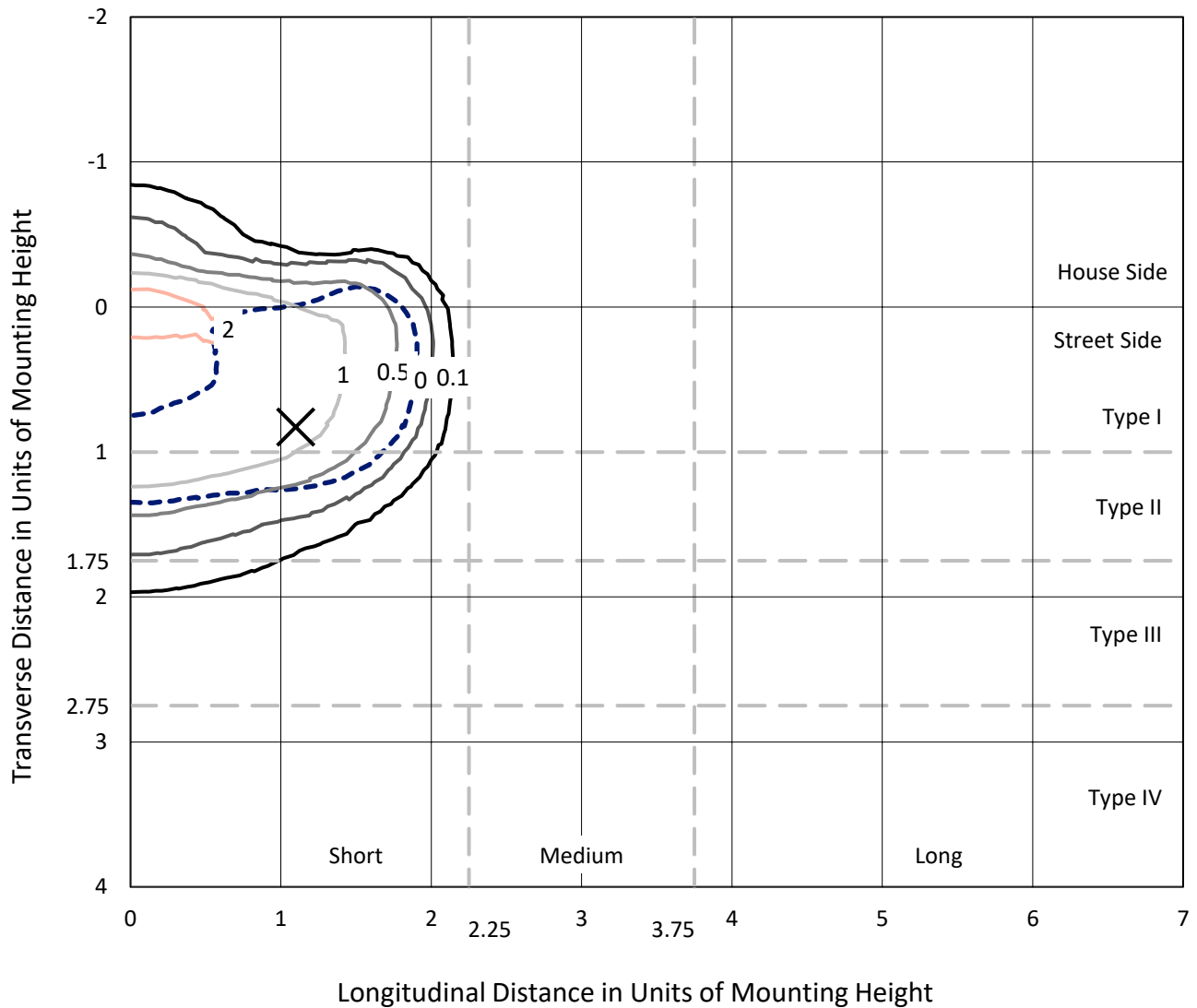
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

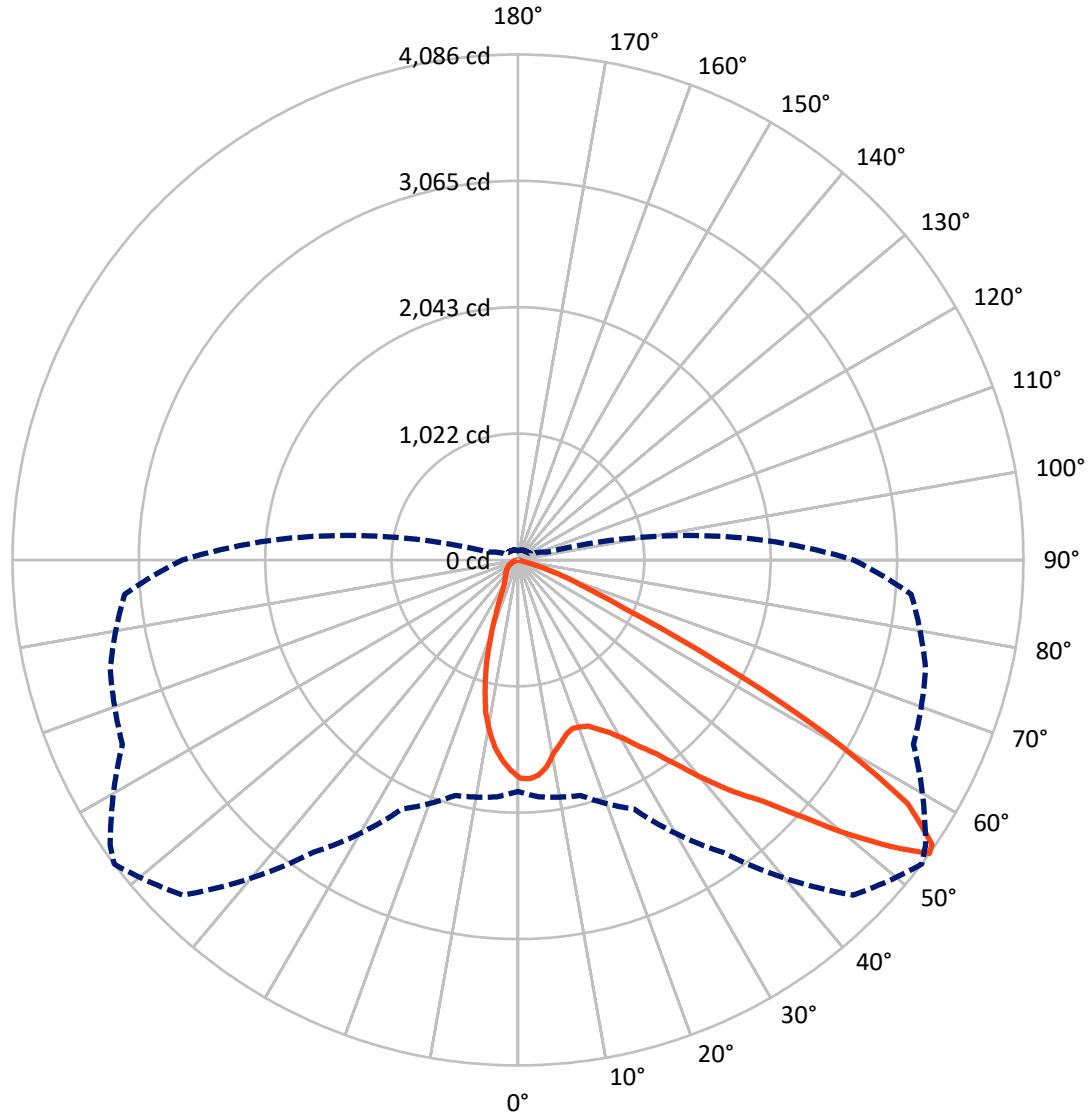
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	812.4	0.0	812.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4097.6	0.0	4097.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4910.0	0.0	4910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	3.1
10°-20°	346.9	7.1
20°-30°	493.0	10.0
30°-40°	760.9	15.5
40°-50°	1193.0	24.3
50°-60°	1385.8	28.2
60°-70°	523.6	10.7
70°-80°	49.8	1.0
80°-90°	5.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4910.0	100.0
0°-180°	4910.0	100.0

Coefficient of Utilization



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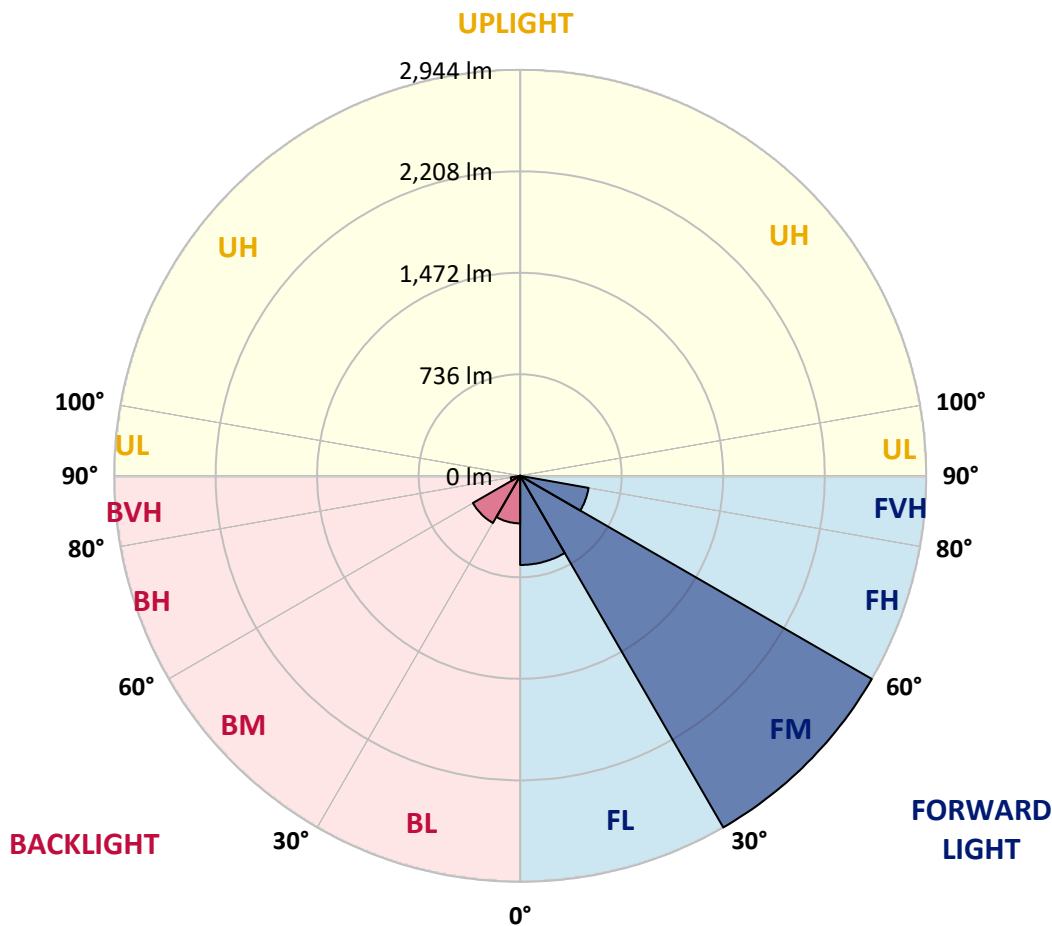
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.5	13.2			
FM (30°-60°)	2944.4	60.0			
FH (60°-80°)	503.8	10.3			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	344.7	7.0	B1/500		
BM (30°-60°)	395.3	8.1	B1/1000		
BH (60°-80°)	69.6	1.4	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1754.4	1738.9	1754.4	1756.3	1767.2	1777.3	1770.9	1785.5	1777.3	1768.2	1765.4
5°	1612.7	1633.7	1634.6	1667.5	1660.2	1720.6	1747.1	1739.8	1784.6	1781.9	1775.5
7.5°	1485.5	1477.3	1488.3	1526.7	1575.2	1644.7	1683.1	1682.2	1746.2	1791.9	1787.4
10°	1367.5	1366.6	1389.5	1419.7	1460.8	1534.0	1587.0	1613.6	1713.3	1782.8	1792.9
12.5°	1287.9	1284.3	1309.0	1333.7	1398.6	1455.3	1523.0	1535.8	1650.2	1750.8	1767.2
15°	1235.8	1244.0	1245.9	1293.4	1334.6	1409.6	1462.6	1489.2	1620.9	1725.2	1788.3
17.5°	1226.6	1237.6	1238.5	1277.9	1321.8	1384.9	1431.5	1467.2	1596.2	1738.0	1789.2
20°	1244.9	1238.5	1244.0	1268.7	1311.7	1372.1	1439.8	1451.7	1588.0	1744.4	1799.3
22.5°	1297.1	1295.3	1281.5	1301.7	1331.8	1395.0	1459.0	1477.3	1611.7	1777.3	1807.5
25°	1354.7	1364.8	1352.0	1349.2	1370.3	1432.5	1517.5	1541.3	1691.3	1836.8	1833.1
27.5°	1462.6	1452.6	1452.6	1439.8	1434.3	1464.5	1580.6	1620.0	1780.1	1913.6	1862.4
30°	1566.0	1577.0	1568.8	1573.3	1536.7	1534.0	1670.3	1718.8	1937.4	2030.7	1924.6
32.5°	1729.7	1715.1	1728.8	1716.9	1668.5	1619.1	1791.9	1842.3	2127.6	2165.2	2017.9
35°	1866.0	1859.6	1918.2	1916.3	1837.7	1789.2	1920.9	1995.9	2260.3	2326.1	2127.6
37.5°	2060.0	2048.1	2114.8	2146.9	2076.4	2004.2	2105.7	2192.6	2383.8	2455.1	2240.2
40°	2259.4	2289.6	2379.2	2432.3	2357.2	2261.2	2331.6	2358.2	2466.1	2539.3	2317.0
42.5°	2511.8	2555.7	2647.2	2692.9	2686.5	2582.3	2561.2	2560.3	2525.6	2515.5	2373.7
45°	2754.2	2737.8	2878.6	2978.3	3058.8	3028.7	2782.6	2755.2	2619.8	2551.2	2388.3
47.5°	2860.3	2854.9	2950.9	3128.4	3402.8	3440.3	3104.6	2998.5	2778.9	2701.2	2467.9
50°	2723.1	2751.5	2846.6	3043.3	3464.1	3750.4	3499.7	3357.0	2964.6	2884.1	2656.4
52.5°	2274.9	2294.1	2384.7	2634.4	3255.5	3933.3	3878.4	3796.1	3305.8	3172.3	2984.7
54°	1870.6	1921.8	1971.2	2221.9	2884.1	3831.8	4086.1	4023.0	3528.1	3411.9	3191.5
55°	1629.1	1659.3	1695.0	1944.7	2627.1	3659.8	4062.3	4067.8	3677.2	3486.9	3330.5
57.5°	1190.1	1211.1	1174.5	1285.2	1803.8	2971.9	3715.6	3863.8	3878.4	3599.4	3415.6
60°	909.2	918.4	877.2	894.6	1121.5	2039.8	2874.1	3052.4	3498.8	3145.7	2893.3
62.5°	705.3	707.1	706.2	736.4	772.9	1200.1	1797.4	1955.7	2412.1	2233.8	1964.8
65°	519.6	511.3	526.0	617.4	659.5	754.6	946.7	1062.0	1310.8	1106.8	791.2
67.5°	336.6	339.4	354.0	459.2	565.3	579.0	582.7	573.5	574.4	316.5	198.5
70°	202.2	206.7	202.2	259.8	404.3	415.3	379.6	370.5	289.1	75.0	74.1
72.5°	119.8	113.4	101.5	111.6	168.3	201.2	181.1	180.2	113.4	43.9	43.9
75°	50.3	45.7	37.5	33.8	44.8	43.0	43.0	38.4	30.2	29.3	27.4
77.5°	10.1	10.1	7.3	8.2	11.0	12.8	15.6	15.6	18.3	18.3	17.4
80°	0.0	0.9	2.7	5.5	8.2	11.9	13.7	13.7	15.6	15.6	12.8
82.5°	0.0	0.9	2.7	5.5	7.3	11.0	13.7	13.7	15.6	16.5	13.7
85°	0.0	0.9	2.7	4.6	7.3	9.1	9.1	8.2	6.4	5.5	3.7
87.5°	0.0	0.0	0.9	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1771.8	1770.9	1749.0	1713.3	1705.0	1674.9	1671.2	1652.9	1663.0	1629.1	1625.5
5°	1757.2	1746.2	1719.7	1696.8	1630.0	1582.5	1545.0	1499.2	1472.7	1477.3	1459.9
7.5°	1778.2	1749.9	1703.2	1623.6	1542.2	1459.0	1414.2	1320.9	1287.0	1236.7	1229.4
10°	1756.3	1735.2	1663.0	1531.2	1418.7	1298.9	1193.7	1090.4	1011.7	977.8	970.5
12.5°	1754.4	1717.9	1597.1	1450.8	1287.9	1116.0	963.2	834.2	756.5	712.6	702.5
15°	1726.1	1682.2	1523.0	1326.4	1101.3	887.3	720.8	596.4	536.9	511.3	518.6
17.5°	1728.8	1663.0	1448.9	1194.6	917.5	651.3	492.1	428.1	412.5	418.9	418.9
20°	1726.1	1620.0	1359.3	1042.8	702.5	451.9	361.3	338.4	348.5	368.6	364.1
22.5°	1711.4	1599.9	1277.0	882.7	516.8	334.8	290.0	290.9	306.4	331.1	336.6
25°	1722.4	1555.0	1172.7	720.8	376.9	267.1	251.5	258.0	274.4	292.7	296.4
27.5°	1714.2	1523.0	1063.8	559.8	275.3	229.6	228.7	236.0	243.3	257.0	257.0
30°	1723.3	1493.7	956.8	416.2	226.9	210.4	206.7	212.2	219.5	222.3	221.4
32.5°	1757.2	1471.8	833.3	311.0	200.3	192.1	192.1	192.1	191.2	194.8	195.8
35°	1831.3	1475.5	724.5	240.6	182.9	176.5	173.8	170.1	168.3	170.1	171.1
37.5°	1911.8	1473.6	612.0	204.9	170.1	164.7	158.2	152.8	151.8	153.7	150.9
40°	1947.4	1491.0	507.7	183.9	158.2	151.8	141.8	137.2	138.1	140.0	138.1
42.5°	1995.9	1496.5	440.0	167.4	147.3	137.2	130.8	125.3	124.4	127.1	126.2
45°	1995.0	1465.4	368.6	158.2	137.2	126.2	118.0	113.4	113.4	115.3	116.2
47.5°	2053.6	1460.8	316.5	150.0	129.9	118.9	108.9	105.2	104.3	104.3	102.4
50°	2189.9	1524.8	276.2	140.9	120.7	110.7	102.4	97.9	94.2	92.4	91.5
52.5°	2456.0	1724.3	245.1	129.9	110.7	102.4	95.1	91.5	86.9	82.3	81.4
54°	2714.0	1930.1	243.3	120.7	102.4	97.0	90.6	88.7	83.2	76.8	75.0
55°	2830.2	2049.9	249.7	113.4	97.0	93.3	87.8	86.0	80.5	73.2	72.3
57.5°	2926.2	2096.5	246.1	94.2	87.8	86.9	82.3	79.6	73.2	63.1	61.3
60°	2355.4	1585.2	176.5	83.2	80.5	78.7	75.0	73.2	64.9	54.0	53.1
62.5°	1488.3	912.0	112.5	73.2	70.4	67.7	63.1	61.3	54.0	43.0	40.2
65°	633.9	377.8	75.9	64.9	60.4	55.8	52.1	49.4	43.0	32.0	31.1
67.5°	164.7	134.5	63.1	56.7	50.3	43.9	41.2	36.6	29.3	22.0	21.0
70°	74.1	67.7	53.1	47.6	40.2	33.8	30.2	25.6	19.2	14.6	13.7
72.5°	43.9	43.0	40.2	35.7	30.2	25.6	22.0	17.4	12.8	8.2	8.2
75°	27.4	26.5	27.4	24.7	21.0	19.2	16.5	11.9	7.3	3.7	3.7
77.5°	16.5	16.5	16.5	15.6	14.6	14.6	11.9	7.3	3.7	0.9	0.9
80°	12.8	12.8	13.7	12.8	12.8	12.8	10.1	5.5	1.8	0.0	0.0
82.5°	12.8	13.7	15.6	14.6	12.8	11.0	9.1	5.5	1.8	0.0	0.0
85°	3.7	2.7	4.6	6.4	9.1	8.2	6.4	4.6	1.8	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)